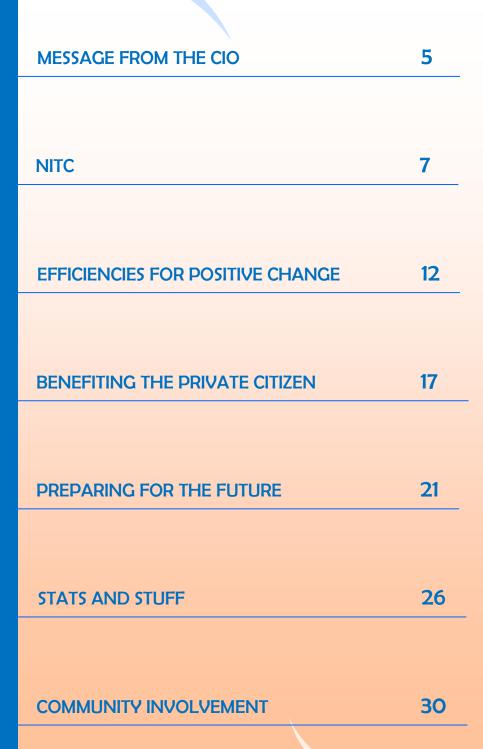
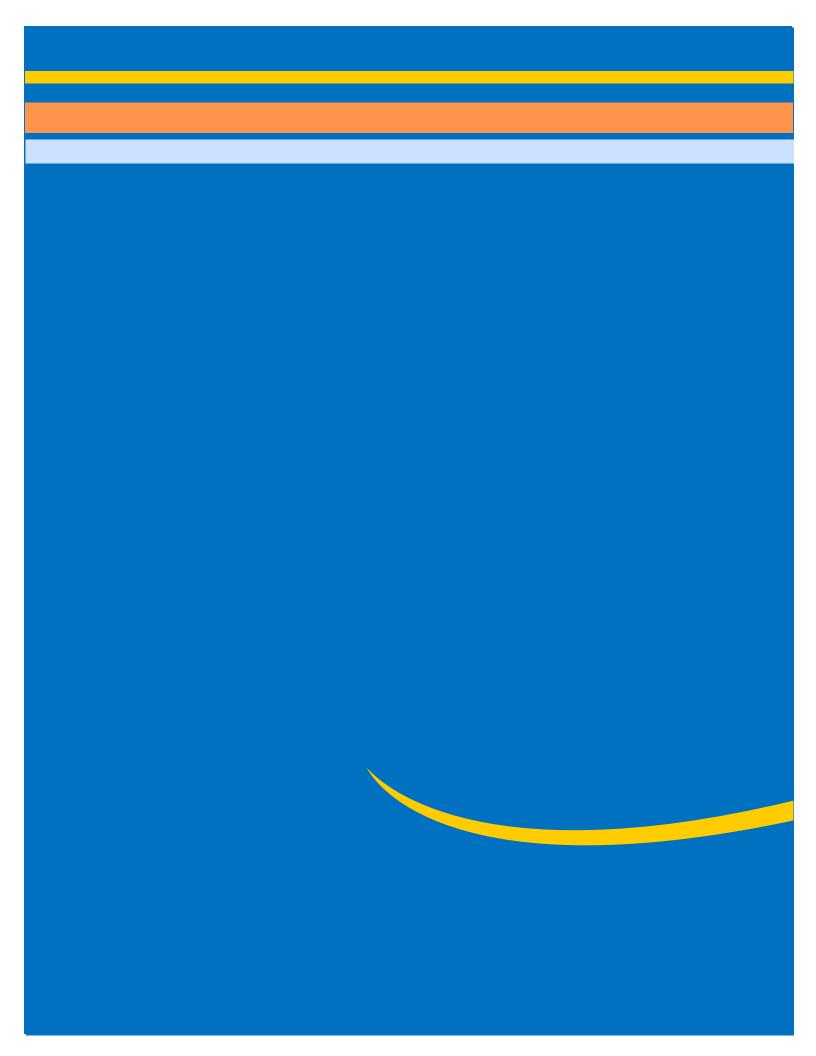


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we are playing a solo game,
when in reality
we would be
much further ahead
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as a team and
partnering our resources."
—Reid Hoffman







## Letter from the CIO

"No matter how brilliant your mind or strategy, if you're playing a solo game, you'll always lose out to a team."

-Reid Hoffman, LinkedIn co-founder

The title of our Annual Report this year is "Partnering for the Future". I think the quote from Reid Hoffman is extremely appropriate for this topic. Way too often we are playing a solo game, when in reality we would be much further ahead



if we were playing as a team and partnering our resources. I believe we have seen that in several areas this year that are highlighted in this report.

We have had some great successes in our shared services initiatives over the past year and truly have partnered to make sure that the State of Nebraska has been successful in the deployment of new technologies and systems. Take a look at the continuing success of the enterprise content management system, the statewide email system, Network Nebraska, our consolidated contracting vehicles, our county network, our mainframe services, etc. These shared services have continued to provide excellent service to all of us with costs continuing to decrease to all participants. That is a great measurement of success.

I am sure that the upcoming year will present us all with new opportunities to continue to work together. We have established a solid pattern of success and with the new technologies that are coming toward the State, there will be a great deal of sharing of not only services, but information and skills. I am excited to see what the new challenges will be and how we address them as a State.

We have seen a lot of changes over the past ten years and have had the extreme good fortune of having the support of the Governor and the entire Heineman Administration as we have moved the State forward. If you aren't sure about that statement, take a look at some of the old technologies that we have retired in the past ten years and the progress we have made. We even highlighted a mix of these in our photo below! Thanks for all you have done to make the State successful.

Brenda Decker



The OCIO Leadership Team having some fun with old and new technology. **Back row:** Brenda Decker, Jim Ohmberger, Steve Schafer and Beverlee Bornemeier. **Front row:** Tim Cao and Jayne Scofield.



5—Partnering For The Future



# NEBRASKA INFORMATION TECHNOLOGY COMMISSION

The Commission was established by the Legislature in 1998 to provide advice, strategic direction, and accountability on information technology investments in the state and is responsible for reviewing budget requests for technology projects and developing an annual statewide technology plan. Commissioners are appointed by the Governor and represent elementary and secondary education, postsecondary education, communities, the Governor, and the general public.

Last year, the NITC celebrated its 15<sup>th</sup> Anniversary. It is evident that 'partnerships' have always played a major role in the NITC's accomplishments-not only for the past 15 years but for much of this past year's accomplishments. The NITC conducts most of its work through six advisory groups: the Community Council, Education Council, eHealth Council, Geographic Information Systems Council, State Government Council, and Technical Panel. Each of these councils has a wide sector representation of entities that come to the table for a common cause. Nebraska has received national recognition for its ability to build collaborative partnerships.

"It is evident that 'partnerships' have always played a major role in the NITC's accomplishments-not only for the past 15 years but for much of this past year's accomplishments."

The Community Council membership includes representation from the following sectors: rural and community IT development programs, local government, libraries, resource providers and at-large members. The Community Council has partnered with the Public Service Commission, University of Nebraska-Lincoln, Applied Information Management (AIM), and the Department of Economic Development to support broadband planning and mapping activities funded through a grant from the National Telecommunications and Information Administration. The Community Council and project partners kicked off the development of a state broadband plan on November 1, 2013. Preliminary findings and recommendations will be presented at the Nebraska Broadband Conference October 1-2, 2014 in Kearney. The plan will focus on economic development, agriculture, broadband availability and affordability, and digital literacy and access.





Lt. Governor Lavon Heidemann cutting cake at the 15th Anniversary celebration of the NITC.

# CURRENT NITC COMMISSION MEMBERS

Lieutenant Governor Lavon Heidemann-Chair Dr. Terry Haack—Superintendent, Bennington Public Schools

Donna Hammack—Chief Development Officer, Saint Elizabeth Foundation

Dorest Harvey—USSTRATCOM/AFLCMC-HBCC, Offutt AFB

Randy Meininger—Mayor, City of Scottsbluff Brad Moline—President, Allo Communications Dan Shundoff—Chief Executive Officer, Intellcom

Gary Warren—President of Services Corporation, Hamilton Telecommunications Walter Weir—Chief Information Officer, University of Nebraska

Senator Dan Watermeier—Nebraska Legislature – ex officio member

Commissioners gathered at the NITC 15th Anniversary Celebration. **Left:** Lt. Governor Lavon Heidemann, Dr. Dan Hoesing, Pat Flanagan, Mike Huggenberger, Donna Hammack, Brad Moline, Senator Dan Watermeier and Lance Hedquist.

#### **NITC Staff**

**Back Row:** Nathan Watermeier, Tom Rolfes and Rick Becker.

**Front Row:** Anne Byers and Lori Lopez Urdiales.

"The Nebraska Health Information Initiative (NeHII) has become one of the largest statewide health information exchanges in the country with over 3,500 users and information on over 2.7 million individuals."



The eHealth Council has representation from state government, health care providers, eHealth initiatives, public health, consumers and resource providers/experts. The Health Council has partnered with stakeholders to implement a four-year \$6.8 million federal grant from the U.S. Department of Health and Human Services Office of the National Coordinator for Health IT to support health information exchange efforts in the state. During the grant period, the Nebraska Health Information Initiative (NeHII) has become one of the largest statewide health information exchanges in the country with over 3,500 users and information on over 2.7 million individuals. Using NeHII, doctors in the emergency department can access patients' medication histories, avoiding potentially dangerous adverse drug events. A patient's primary care physician and specialists can also access his/her most recent test results. Nebraska also has one of the nation's only health information exchanges exclusively serving behavioral health information exchange providers. The Electronic Behavioral Health Information Network (eBHIN) went live in the summer of 2012 and currently has over 500 users in Southeast Nebraska (Region 5) and the Omaha area (Region 6). The progress made over the past four years will lay the foundation for greater adoption of health information exchange in the state and support efforts to improve health care quality.

The Education Council, by its very representation, is comprised of partner-ships—between public and private education, and K-12 and higher education. It is one of only a handful of information technology advisory groups that has K-12 and higher education, public and private, at the same table, speaking in one concerted voice for the benefit of Nebraska education and citizens. One of the most visible and recognizable partnership efforts of the NITC Education Council is the Network Nebraska-Education statewide network. By daily serving over 95% of all the public K-20 students in the state with Internet and distance education, this self-funded network is a significant public/private partnership. Virtually every telecommunications company in Nebraska plays a part in the daily data transport from wide area circuits, to statewide backbone, to commodity Internet provision.

The affordability and voluntary membership levels of this network are drawing national attention. Network Nebraska-Education is a successful case study that demonstrates what can be accomplished in a "local control" state when leaders craft a realistic project, and communicate that project vision to all eligible entities, while building trust and a sense of ownership through operational transparency and constituent representation. Both K-12 and higher education entities have used Network Nebraska to increase their Internet access and lower costs. The Education Service Unit Coordinating Council uses Network Nebraska to deliver elements of its BlendED Initiative and the Department of Education uses Network Nebraska to carry out its online student assessments and data dashboard pilot project. Network Nebraska-Education will provide the technological capacity to carry out future education initiatives and interventions developed by the Governor, the Legislature, the Department of Education, and other entities as they implement programs to benefit the learners and citizens of Nebraska. A strong statewide education system that provides world-class learning opportunities anywhere in the state through online and video distance education not only improves the attractiveness of Nebraska but also contributes to a vibrant economy and a responsive workforce development system.

In 2009, the State Government Council identified enterprise content management (ECM) as an area to explore as a potential shared service. For years, as agencies purchased their own content/document management systems, the state was in the position of owning and operating multiple silo'ed systems, each with standalone equipment and staff support. Six agencies volunteered to be involved with the requirements, Request for Proposal (RFP), and award process for the new shared ECM system. Over six months, the group identified 126

requirements, prepared an RFP and evaluated the results. In September 2010, an ECM system contract was awarded. As of July 2014, fourteen agencies are using the ECM system with over 7,700 internal users, over 18,000 external users, and over 26.5 million documents in the system.

#### Shared services implemented include:

- Enterprise Maintenance/Purchase Agreements
- Geographic Information System (GIS)
- E-mail and collaboration services (including SharePoint and LiveMeeting)
- Business Continuity/Disaster Recovery
- Enterprise Content Management
- Interactive Voice Response

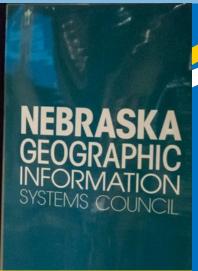
The Technical Panel has representation from the Nebraska Educational Telecommunications Commission, Office of the Chief Information Officer, K-12 education, Assistive Technology and the University of Nebraska Computing Services Network. The Technical Panel, in conjunction with the State Government Council and other NITC councils, develops and recommends standards and guidelines to the NITC. Approximately 50 standards, guidelines, and resource documents are now in place. In addition to these duties, the Technical Panel also reviews any technology projects presented to the Commission including any recommendations by working groups established by the Commission. As a result of the expertise of its members, the Technical Panel will continue to provide technical and I.T. project recommendations to the NITC to provide cost savings to the private citizens of Nebraska.



With representation of approximately twenty state agencies and two representatives from the private sector, the State Government Council is tasked with identifying, reviewing and prioritizing potential shared services for state government.

**Above:** Governor Dave Heineman addressing the NITC at a meeting.





GEOGRAPHIC

The Geographic Information Systems (GIS) Council has representation from state, county and local government, the League of Municipalities, Natural Resource Districts, Nebraska Public Power Districts, federal agencies, Nebraska Geographic Information Systems/Land Information Systems (GIS/LIS ) Association and private industry. As a result of the Council's partnerships, GIS Shared Services continues to provide support for data required for projects such as legislative research, as well as emergency and public safety response for natural disasters. Data and map viewer resources were made available for the 2013 South Platte flood and 2014 tornadoes to pertinent emergency response staff. Over 15TB of geospatial data for Nebraska has been inventoried and uploaded to the OCIO's shared GIS environment. This has provided a centralized secure and redundant environment for nearly all of the state's geospatial data. Secure network connections to the data were established to key support staff supporting emergency management and public safety. Geospatial standards have been drafted for elevation acquisition for Light Detection and Ranging (LiDAR), imagery, street centerline, address points, and metadata, and are currently waiting NITC approval.

Looking toward the future, the GIS Council has two priority initiatives: the Nebraska Spatial Data Infrastructure (NESDI) and NebraskaMAP.gov. The NESDI will provide accurate and reliable data for decisions that enhance health, safety, and welfare of Nebraskans. It includes the following framework layers: hydrography, political boundaries, watersheds, land use, soils, land records, transportation, imagery, elevation, and survey and geodetic control. NebraskaMAP provides public access to geospatial data in Nebraska and is the only authoritative clearinghouse for state government data. Efforts are currently underway to enhance NebraskaMAP into a multi-use enterprise platform which will provide access to additional peer-reviewed Nebraska data, maps, and GIS web services.



**Right:** Presenting the award are Stu Davis, Claire Bailey and NASCIO President—Brenda Decker with Tom Rolfes and Jayne Scofield accepting.



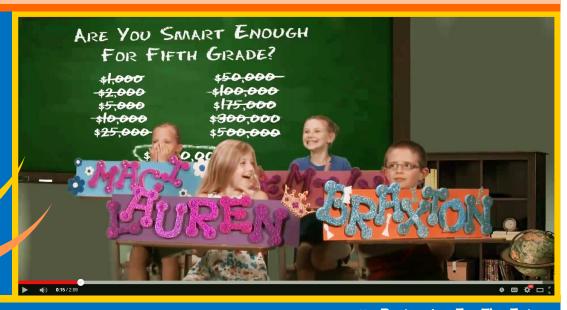
The Nebraska Office of the CIO was recently recognized for our partnerships by the National Association of State Chief Information Officers (NASCIO). On October 14, 2013, at the National Conference in Philadelphia, our project: **Network Nebraska-Education** won first place in the category entitled 'Cross-Boundary Collaboration and Partnerships' above eleven other states' nominees.

Each winner was required to submit a short video to 'inform' and 'entertain'. The winning <u>video</u> entitled "**Are You Smart Enough for FIFTH Grade**" was produced at Nebraska Educational Television and starred a local actor/realtor, an OCIO employee and three children of our employees. See the <u>nomination statement</u> and the <u>NASCIO 2013 State IT Awards Website page</u>.

Nebraska Office of the CIO was also recognized for two other NASCIO project finalists, Nebraska Capitol Live Mobile App (shown right) in the Fast Track Solutions category and the Handicap Parking Permit Application and Management System in the Government to Citizen (G2C) category. The Nebraska Capitol Live Mobile app allows users of both Android and Apple products to stream all coverage of the Unicameral from bill introduction to final reading. The app is free and available from the Apple app store, iTunes and the Google Play store. It also provides live coverage of other state entities, including the Nebraska Supreme Court and the Governor's Hearing room.



**Right:** A scene from the winning video: "Are You Smart Enough For Fifth Grade?" The video featured an employee as the contestant and three children of our current staff.





Many of the Office of the Chief Information Officer's teams develop partnerships to realize the vision of achieving efficiencies for positive change in operations and/or cost savings. The following are some of the efficiencies the OCIO, along with our partners, achieved this year.

# For Positive Change



As a means to help promote more effective communications via email, a process has been developed to load security access card pictures into the enterprise active directory that allows for the employee's photo to appear at the top of their emails. This was launched in October 2013 for employ-

ees of the Office of the CIO who wished to participate. Since then, we have received many positive comments from other agencies that they appreciate being able to put a face with a name. Other participating agencies are: the Department of Labor, the Department of Economic Development and the Department of Roads. We welcome any agency that wants to deploy this feature for their employees.

The OCIO Web Team, in partnership with the Department of Correctional Services, developed and deployed a new and improved web-based Federal Surplus Property Tracking System for Nebraska Federal Surplus Property. The system provides tracking information for inventory received as Federal Surplus and the companies eligible to receive surplus items. The information available within the system on inventory items includes such things as a description, date the item was received, quantity of items, and an overall acquisition value. There is also a search feature which saves time when seeking inventory items that can consist of anything from shop equipment to generators, mowers, vehicles, and even heavy equipment.

In our mainframe area, the Customer Information Control System (CICS) Support Team partners with agencies to provide a large scale processing environment for 24x7 business applications that allow customers to process high-volumes of transactions in an extremely secure and reliable environment with sub-second response times. Several large agencies use CICS -Department of Health and Human Services, Revenue, Motor Vehicles, Roads, State Patrol, Corrections, Labor, etc. The Scheduling Team's e-mail feature was turned on in the IBM Tivoli Output Manager (ITOM) and 212 reports that were being printed and distributed to the Department of Health and Human Services are now being e-mailed to clients as a PDF document. The Mainframe (z/OS Computing Resources) storage took a major leap forward, as new DASD storage was purchased, replacing the local storage unit and the disaster recovery unit. The new storage provides considerably more capacity along with improved performance. In addition, in response to heightened security concerns everywhere, all DASD data is now encrypted. Migration from the old to the new was accomplished without disrupting customer service.

With the increased need for security on the state network, the reality of unauthorized personal devices being connected to the state network has become a larger and larger issue to manage. This year the team has started the process of implementing additional features in our email platform to allow the State to better manage personal mobile devices that are accessing the network. The new features allow the State to stay in compliance with the updated NITC policy regarding the use of personal devices and ensure that we are making every effort to protect State data.

The Database Management Group (DBM) provides large-scale installation, maintenance, and support for the DB2 database environment. These twenty-four hour per day services provide databases that can be accessed via frontend software tools residing on AIX, AS400, Windows, and z/OS platforms to retrieve the data entrusted to us by our clients. The Database Management Group wrapped up its year-long DB2 V10 migration involving migration of twenty (20) DB2 Subsystems; along with allied supporting tools that interface with DB2 on the z/OS platform. And just when you thought it was safe to go into the water, a new release - DB2 V11 was issued. The Oper-

Operations received and processed a total of 19,171 requests for Enterprise

One password resets in 2013.

ations Group provides 24x7x365 console support to customers with large systems. They interact with systems software, monitor application performance, document and provide notification of abnormal terminations, process job and dataset requests, and manage the procedural documentation and disaster recovery libraries. They also provide

general helpdesk support to state agencies during non-core hours, respond to Nebraska.gov live chat inquiries, and provide physical security, infrastructure monitoring, and maintenance of the data center. From October 2013 to March 2014, this group provided operational support to both the OCIO and the disaster recovery location for the successful installation of a totally new storage solution, data migration from the old solution to the new solution, installation of hardware management con-

soles and encryption servers, and the de-installation and removal of the old solution.

The Processing Support staff worked with the Department of Health and Human Services, the Department of Revenue, and the Department of Motor Vehicles in addition to several small agencies to code seven new overlays. An overlay consists of only the changes/updates needed to an online form. Thus the form does not have to be recreated or reprinted. Agencies save a great deal of time and money by using the overlay process. In addi-

tion, the Processing staff changed overlay code for 200 existing overlays along with the appropriate changes necessary to utilize the overlay code in the report print process. Providing an extra benefit for agencies with bilingual customers, several of these overlays are maintained in both English and Spanish.

This past year, the City of Lincoln/Lancaster County became a new mainframe customer. Lincoln/Lancaster was in the process of eliminating their mainframe. After collaborating on this effort, all of their mainframe applications were moved over to the State mainframe. At one point, the OCIO considered placing them into their own segregated environment,

but opted to integrate their workloads with the State's, and it soon became evident that that was the right call, as their activities have meshed nicely providing for better efficiencies.

The Processing Support Staff reviewed and promoted 1,120 execution and procedure Job Control Language (JCL) members to the production libraries, reviewed documentation for 1,284 jobs as part of the promotion process and ensured that the job documentation matched the JCL being moved to production.



**Above:** The Enterprise Content Management Team was awarded an "At Your Service" recognition award at the 3rd Quarter Ceremony on May 15th. **Back row:** Kevin Keller, Gerry Oligmueller, John Talken, Mal Hardin, Caleb Wederquist and Bob Spire. **Front row:** Brenda Decker, Rochelle Sanford, Laurie Schlitt, Curtis David and Dan Schlautman. **Not pictured:** Greg Pletcher.

Nebraska is using its Enterprise Content Management (ECM) to meet the goals of efficiency through the use of technology. Through the use of ECM, the State is able to provide more efficient government through the use of online forms, workflow and automated document composition. This innovative approach has allowed agencies to improve services within their own organizations as well as improve services to constituents saving both State and Federal dollars. The ECM is also providing increased productivity and faster service delivery which has improved Government Services and shown a positive return on investment.

Another service available to customers to store and track electronic documents or images of paper documents is our SharePoint environment. The use of SharePoint within the OCIO and other state agencies has expanded to include 83 Team sites as well as over 400 Personal sites. This application is also capable of keeping track of versions of documents created by different users. In addition to being a platform for digital record management systems that meet government and industry compliance standards, SharePoint also provides the benefit of a central location for storing and collaborating on documents, which can significantly reduce emails and duplicated work in an organization. It allows individuals in an organization to easily create and manage their own collaborative Web sites. SharePoint increases efficiencies by simplifying how people find and share information across boundaries.

"The Intergovernmental Services group partnered with the Nebraska Association of County Officials (NACO) to enable a cost effective hosting solution for counties to use for NACO applications. This hosting service saw a 20% overall rate reduction to all counties this year. The group also deployed over 175 personal computers and 160 thin clients in the county settings."

The year also brought the modernization of the network infrastructure in a number of county courthouses to accommodate the growing needs of county government. The Intergovernmental Services group partnered with the Nebraska Association of County Officials (NACO) to enable a cost effective hosting solution for counties to use NACO applications. This hosting service saw a 20% overall rate reduction to all counties this year. The group also deployed over 175 personal computers and 160 thin clients in the county settings. Even the printers in the counties have been updated from impact printers to laser printers.



#### **ECM Quotes From Customers:**

"The cost benefit of ECM is well worth it – we don't know if we can get more efficient." – Department of Environmental Quality

"With ECM, we have created a paperless process, eliminated the need to print thousands of sheets of paper annually, reduced days searching for outstanding documents and saved significant labor hours."

—Department of Health and Human Services



In conjunction with the modernization of the equipment in the counties, the Midrange team acquired new hardware to host the remaining county servers in our consolidation effort. The hardware is configured to support a number of counties on a single footprint saving resources related to the monitoring, management and support of multiple servers at multiple locations. Consolidation of the 93 servers in the counties saves money associated with the ongoing support and maintenance, with an added benefit of being in a secure/ reliable environment with redundant network connectivity and backup power. Within the last year, we have consolidated 9 additional county servers serving 9 different counties, for a total of 40 counties completed. We have procured the additional hardware necessary to consolidate the remaining counties in the coming year.

Continuity of Operations and Disaster Recovery planning continue to be active hubs of partnering with outside agencies with the intent of strengthening the resiliency of the OCIO's mission. Added emphasis has been placed on integrating the State Building Division's activities related to the 501 Building with the OCIO's own Change Management Process therefore providing better coordination of the physical infrastructure and the information systems infrastructure. We have been partnering with the Capitol Commission and the State Building Division to improve communications and coordination of testing of mechanical functions throughout the year.

The OCIO and the Administrative Services-State Building Division (SBD) have also engaged several outside entities on data center management reviews and best practice recommendations. We have identified a number of new opportunities to enhance our readiness such as fuel testing/polishing for the fuel supply for our back up electrical generator. These same best practices are also being used by SBD at the Nebraska

State Office Building where they have some similar life safety backup systems. The goal is to strengthen our own practices and create avenues for improvement in areas which have a longer budget cycle. A large number of these recommendations are already taking place and showing improved communication amongst the different agencies and process workflows.



The OCIO's Project Management Team provided support for the Clarity application through normal maintenance, functional support, and partnered with the vendor and several internal teams to identify and resolve system related issues. The result was improved or additional functionality added for Clarity users such as:

- Improvements in number and types of reports for users
- Incident tracking and incident reporting
- Implemented the use of programs in Clarity which is used to manage multiple projects together
- Improve the tracking of ongoing/operational work in Clarity (system maintenance, overhead, etc.)



Left: Greg Carstens, OCIO Business Continuity/ Disaster Recovery Coordinator, shown speaking to a group at the 2014 CyberSecurity Conference about Continuity Management.

#### **HELP DESK FACTS:**

- ⇒ The Help Desk fielded 64,275 requests for assistance from both internal and external customers in 2013.
- The Help Desk sent out over 200 notices regarding "Change Management" scheduled downtimes or outages and fielded customer reports of 35 outages.

The OCIO partners with the Nebraska Department of Roads (NDOR) on the Clarity project management software system to develop new ways to efficiently use the software to the benefit of the users. One example is the creation of a database that keeps environmental data stored within the corresponding highway project, which provides transparency into the NDOR environmental process. Both agencies are working again on the requirements for the creation of another database for the Roadway Design division.

Our Kronos timekeeping software is used by several agencies that have the need for time clock type reporting. Recently, this team went through a major software upgrade to version 6.2 and implemented interfaces between diverse software to eliminate the time consuming task of manually manipulating data.

Finally, the Help Desk team manages the customer support process helping agencies communicate with their customers and turn opportunities into solutions. This system is made available as a shared service to other state agencies. Six groups now use our system to support their IT and customer service efforts. In total, 89,694 requests were processed through our system in 2013, with approximately 28% originating with our shared service customers. The benefit of providing this system as a shared service saves agencies the cost of duplicating costs for software, licensing and hardware many times over.



**Left to right:** Dave Rasmussen, Tim Arroyo, Bill Dale, Marcia Stewart, Jason Schnell and Randy Sowards.





With the passage of LB 429, our partnership with Administrative Services fully automated the State Contracts Database process. Through our Enterprise Content Management System, agencies could either manually or automatically upload contracts into the database, as well as redact necessary information and go through an approval process before releasing the contracts for public viewing. Agencies that were already using the ECM platform for their contracts just link their contract process directly into the State Contract database process. This solution went live on July 1, 2014. A public portal allows the public to search the contracts through various

search methods. See a screen shot below.

#### Administrative Services

State Contracts Database



#### Database Start Search

#### Links



#### WELCOME TO THE NEBRASKA STATE CONTRACTS DATABASE

An internal project that required partnership and cooperation within our own agency was the redesign of the OCIO website. The redesigned and refreshed website unifies the teams of the OCIO. This format was created to keep content highlighted and easy to navigate for users. Site navigation is consistent in the header with supplemental links for the content available on the right hand side of each page within the overall site. The minimal design references the structure and reliability of our agency while representing the restraint and conservation of funding and resources our constituents expect. The design also aids in the functionality of the website on all browsers and devices. While the website is cross-browser compatible, it is also mobile ready. A responsive website such as this allows users on all devices to access the OCIO website with ease and quickly find the information they are seeking.

Another great example of a successful partnership was the Nebraska Health Insurance Information website that coupled our office with the Department of Insurance. The website was built to serve as an information portal, consolidating all of the Nebraska health insurance information in one place. The structure allows citizens to quickly answer questions, reduce the amount of incoming calls to the Department of Insurance, and direct residents to where they need to go to purchase insurance. The website is both cross-device and cross-browser compatible ensuring access to all Nebraska residents.



Above: Department of Agriculture Pesticide/ Fertilizer Program Manager, Tim Creger, is demonstrating the camera that uploads supporting information into a tablet allowing Field Inspectors to complete their inspection paperwork on the The Department of Agriculture has implemented both its Food and Fertilizer Inspection programs using tablets out in the field where the entire process has become almost paperless. All of the Food and Fertilizer forms were automated using online forms where the inspectors can now do their inspections through the tablets either while they are connected or disconnected in the field. The inspectors are equipped with scanners, cameras and printers, so they can upload supporting information onto the tablet, complete their inspection, have the individual sign the inspection form and leave a printed copy of the inspection with the individual. This new process allows employees to enter data regarding their inspection and upload the data directly into Agriculture's

database process reducing errors and creating efficiencies.

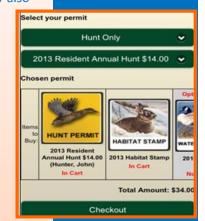
DHHS and the State Patrol's Mental Health Gun Check solution were fully automated so that each of the 30 district courts can enter information into an online form. The information from the form is sent to the Federal National Instant Criminal Background Check System (NICS) database via the State Patrol switch. The switch returns the status, which is added into the online form for the district courts to see. Information from the regional centers is also

flowing through the same processes. There are several documented cases where individuals have applied for gun permits outside Nebraska and have been turned down based on information added to the NICS database from this process.

The Intergovernmental Data Services team worked cooperatively with several key state agencies to address the demand for increased network bandwidth to a number of county courthouses across the state. As a result, the bandwidth in at least 30 counties has been upgraded. In many cases, the increased bandwidth also resulted in decreased costs. The team partnered with the Nebraska Supreme Court to develop and deploy a new public kiosk using the thin client technology, offering the public a more user-friendly access to perform several official business functions, including traffic tickets and citations, online payments, court case look ups and more.

"The new system not only allows for the display of owned permits on mobile devices, but will allow citizens to purchase fishing, hunting, and fur harvest permits using their mobile devices as well."

As a result of the ongoing successful partnership between the OCIO and the Nebraska Game and Parks Commission (NGPC), the new NGPC Mobile Permitting system was recently "soft-launched" in anticipation of a rollout to the general public over the coming months. The new system not only allows for the display of owned permits on mobile devices, but will allow citizens to purchase fishing, hunting, and fur harvest permits using their mobile devices as well. As the new system matures, new functionality will be added allowing mobile-savvy citizens another way to enjoy the great outdoors. In addition to this effort, we worked with Game and Parks to provide additional wireless services in their state parks so the public can have better service.



**Top:** A screen shot of the new NGPC Mobile Permitting system. **Bottom:** A cabin at Mahoney State Park showing one of the new satellite dishes which provide guests with better wireless services.





**Left:** Pam Kemper, Coordinator for the Public Safety Communications Team, was invited to train the Nebraska National Guard Civil Air Support Team on the use of the SRS ROC Talkgroups for communications in their Lakota helicopters.

DEQ's Waste Grant solution was fully automated where now only online applications are accepted. The applications are submitted and processed through a number of workflow approval and scoring processes and then the awards are sent electronically. This has become a totally paperless process. DEQ will be implementing many more of their grant programs using this process.

The Public Safety team has been working to create partnerships to increase efficiencies in many areas. First, we are excited to welcome the Gage County Sheriff's Office as our newest local partner on the Statewide Radio System. With each new agency added to the system comes the opportunity for responder agencies to work together to improve statewide communications and safety. On the topic of the statewide system, the team partnered with a commercial entity to add a tower near Benkelman. Two additional towers were added in the York area and South of Lincoln to satisfy the needs of our public power partners, NPPD and LES. The team has also undertaken a large outreach effort to educate and train state and local agencies on options to participate in the Statewide Radio System. One of the most successful accomplishments has been the Regional Operations Common (ROC) implementations, a dedicated set of common "ROC" talk resources to place in any dispatch center in the state. A "consolette" is installed on the local dispatch console to enable local dispatchers to communicate with state users and their neighboring county dispatch centers with no user fee. Local, state and federal agencies having the ability to communicate with each other at will is a significant step toward developing common procedures to coordinate resources during events like the recent tornadoes in Pilger, Nebraska The ROCs are now being used by 82% of the counties and our goal is achieve 100% ROC use by the end of this year across the state.

With the implementation of the Affordable Care Act (ACA) and the transition of Medicaid eligibility to the Medicaid and Long-Term Care Division, adjustments were made to ACCESSNebraska. The Project Management team partnered with members of the Voice Team and the Department of Health and Human Services Business Operations Work Group to facilitate design, development, testing and the implementation of the new Interactive Voice Response (IVR) systems for both the ACA Medicaid Eligibility and the Economic Assistance call centers. The project will benefit Healthcare customers with the staff on the phone providing more focused attention. Both projects had a deadline



#### **VIDEO CONFERENCING FACTS:**

- ⇒ 6,498 Video Conferences were held during the year of June 2013 to June 2014
- ⇒ 5,122 total hours of Video Conferences occurred during the year of June 2013 to June 2014
- There are a total of 57 registered end-points (Cameras) for Video Conferencing usage

of October 1, 2013. Through collaborative efforts between the Office of the CIO and DHHS, the ACCESSNebraska system was successfully split into the ACA Medicaid Eligibility and Economic Assistance call centers on September 30<sup>th</sup>— one day ahead of schedule.

Over 600 semester video distance learning courses were shared on Network Nebraska-Education among and between high schools and community colleges over Network Nebraska-Education. Through aggregated demand and competitive bidding to establish statewide master contracts, the unit rate for Internet access decreased 49% from 2013-14 to 2014-15. Two additional backbone segments were installed by July 2014 to allow 14 southeast Nebraska school districts to join Network Nebraska-Education while saving costs and increasing bandwidth. The Video Conferencing team has partnered with several educational facilities throughout the state to increase the range of curriculum through the video service.



Pictured: Craig Middle and John Rockenbach from the LAN/WAN Team along with John Heacock from the Building Division received an "At Your Service" recognition award at the 3rd Quarter Ceremony on May 15th nominated by the staff from the State Personnel Division. Left to right: Brenda Decker, Gerry Oligmueller, John Rockenbach, Craig Middle, John Heacock, Rodney Anderson and Dovi Mueller.

"We continue to improve and expand our Emergency Action Plan (EAP) so the agency can protect the data in the data center." Protecting data for state agencies and the private citizen is another vital component of the Office of the CIO. We continue to improve and expand our Emergency Action Plan (EAP) so the agency can protect the data in the data center. The EAP covers all hazards scenario planning from severe weather, fire, medical emergencies and man-made incidents. We have been working with the State Building Division and Lincoln Fire and Rescue (LFR) to update the Computer Aided Response plan for our facility. This process has helped LFR identify the critical areas in the building that would be very sensitive to their normal activities during a fire response. This cooperation has led to identifying additional onsite critical environment portable fire extinguishers that in the event of a fire in the data center, would allow LFR to respond and extinguish a fire without disrupting the operation of the systems in our data center.



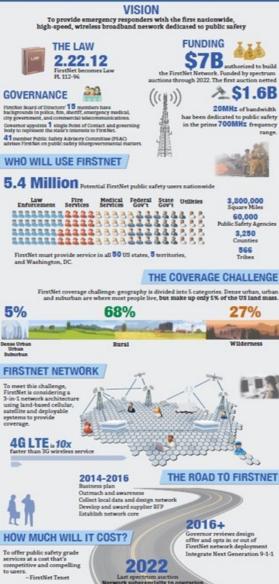


Many of the Office of the Chief Information Officers' teams develop partnerships to prepare for the future. The following are some of these projects that assist in preparing the state for future events.

The Middle Class Tax Relief and Job Creation Act of 2012 created the First Responder Network Authority (FirstNet) and directed it to design, build and operate the first nationwide public safety broadband network across our nation and its territories. In order to implement this network, each Governor was required to establish a Single Point of Contact (SPOC) to work with the public safety entities within their state on this project. Governor Heineman appointed the State CIO as Nebraska's SPOC. One of our first steps was to hire a project coordinator to assist with this effort. Although the project has been slow to begin, we are starting to see clearer elements of the plan and the process FirstNet will use to gather the information and input needed to move forward with the design stage for each state. This process will involve a series of consultations with Nebraska stakeholders as we exchange information. Nebraska received its "Initial Consultation Package" at the end of April and has submitted our response to the "Readiness Checklist", advising FirstNet that we are prepared to move forward with the process. Although initially informed that Nebraska would have its "Initial Consultation" meeting with FirstNet in late October or early November of this year, the dates have now been moved to 2015. FirstNet believes it will be at least a year after the initial consultation before a plan for implementation will be ready to submit to the Governor. The Governor will then decide if the state will opt in or opt out of the plan.

In March, the Office of the CIO partnered with Nebraska Educational Television (NET) to host a working session on the video conferencing solutions that are available to state agencies to better serve the citizens. Many of the new technologies for providing this type of service across Nebraska were shared with the participants and agencies were asked to examine the possibilities for serving the citizens of Nebraska in a new manner.

#### FirstNet by the Numbers





**Above:** Speaking at the Nebraska Digital Summit at Embassy Suites in Lincoln on November 6, 2013, Rebecca Friedman introduced events as the National Conference Director.



**Above:** Chris Hobbs, State Information Security Officer, is shown speaking at the 9th Annual Cyber Security Conference held on June 3rd.



**Above:** A recruiting booth display used by the Office of the CIO and Administrative Services at conferences and events.

In partnership with Government Technology Magazine, the OCIO hosts an annual Nebraska Digital Government Summit which provides a cost-effective and convenient forum for agencies to share ideas and learn about new trends and emerging technologies. This event allows participants to hear inspirational keynote speakers, leadership discussions, participate in networking breaks, and participate in the timely topics discussed in the numerous breakout sessions to help advance the goals of their organizations. The 9<sup>th</sup> annual event was held in Lincoln on November 6, 2013. Over 150 people participated to learn and share ideas on strategic and innovative solutions that will help solve challenges while enabling government to be more effective. The summit has an advisory board that gathers public and private-sector leaders to create an agenda designed to be relevant and actionable to the state and local government.

"...provides a cost-effective and convenient forum for agencies to share ideas and learn about new trends and emerging technologies."

Another annual conference that the OCIO participates in every year aims to raise awareness of cyber security related issues and foster connections among the state's security professionals so they can better plan for future cyber-attacks and viruses. On June 3<sup>rd</sup>, The State of Nebraska Office of the Chief Information Officer, held the 9<sup>th</sup> annual Nebraska Cyber Security Conference. This year the conference was sold out with more than 150 attendees. The participants represented State agencies, higher education, local government, and private industry. The conference sponsors included several well-known national and international vendors including IBM, RSA, Tripwire, AOS, Fishnet, and Infogressive. The presentations at the event covered a wide range of topics including Continuity of Operations, data security, best practices for cloud security, media destruction, and an FBI Cyber Threat overview. The conference this year was a great success with many positive comments made by all in attendance.

"...raise awareness of cyber security related issues and foster connections among the state's security professionals so they can better plan for future cyber-attacks and viruses."

When requested, the OCIO attends various conferences and recruiting events to tout the benefits of State employment with our organization. We also attend various conferences related to specific products offered by the OCIO. For example, our Public Safety team has exhibited at various public safety oriented conferences, our Intergovernmental Data Services team has had a booth at conferences targeted to their client base and many of our other services have hosted conferences related to their specific target audiences. All of these events will aid in preparing our organization and the State for the future.







The **Red** Team. **Back row**: Mike Scofield, Jason Butler, Dan Oehmke, Wayne Hayden-Moreland and Jack Harris (Captain). **Front row**: Austin Howard, Mike Jeffres and Jeff Cadwallader.

Many of the OCIO teams participate in professional organizations and conferences for the goal of gathering information from other states and looking for ways to improve our own state operations. One of these professional organizations is the National Association of State Technology Directors (NASTD). Nebraska members hosted the conference for the Midwest region in April. NASTD is a national organization of technology professionals whose purpose is to advance and promote the effective use of information technology and services to improve the operation of state government. The agenda included reports from each state in the region as well as presentations of new technologies from vendors. The format of the conference is sharing information among the states in the region among their equivalent offices of the OCIO. The day prior to the conference, the Vice President of NASTD and the OCIO Host, organized a shooting competition where OCIO employees, conference attendees from other states, and a few corporate affiliates participated. Two teams were set up for the competition (Blue and Red) who worked their way through various shooting events. It was a great deal of fun for the participants.

"Ultimately, we envision states will connect their systems and tie their talk resources to enable easy roaming between systems without a user having to switch their radio knob or risk leaving their coverage area."

The Statewide Radio System (SRS) was built in partnership with the Nebraska Public Power District to



provide a statewide radio network available to all public safety agencies and public utilities operating in Nebraska. The team has also been busy building partnerships with neighboring states so that law enforcement officers on both sides of the border can work together and communicate. Ultimately, we envision states will connect their systems and tie their talk resources to enable easy roaming between systems without users having to switch their radio knobs or risk leaving their coverage area. In the meantime, we are in the process of adding radios in local dispatch centers across borders, as well as within the counties to assist in the goal of allowing public safety agencies to communicate with each other when necessary.

The OCIO has recently completed a new contract for the State's mass notification service. This new software as a service product is already drawing interest and several agencies have signed on for this valuable communications tool. The contract is expected to provide a much better user experience, more reliability and new additional features. These new additions include automated National Weather Service alerts of severe weather warnings to employees, GIS mapping tools for select geographic alerting of contacts, and Integrated Public Alert Warning System integration for Federal Emergency Management Agency (FEMA) recognized state or county emergency management agencies. The new system is a great back-up means of communication if the state email or phone systems go down due to a catastrophic incident. With the new service being a software as a service product, as long as users can get to an internet or simple phone connection, they can launch a notification and post a message to our remote emergency site hosted by the vendor outside of the State's network.

The enterprise Intel storage has been consolidated and updated this past year to ensure that the future needs of State agencies can be met. The new technology is in place to allow for appropriate groups and provide the proper storage for the need without agencies duplicating their investment.

The Open Systems team has deployed the System Center Configuration Manager (SCCM) to assist with the remote deployment of software, patches, etc. This software, available for agencies to use, allows for automated deployment of upgrades ensuring that equipment at the employee level is patched and up to date.



Open Systems Team 'Selfie.' Front row: Nancy Taylor, Annie King and Rose Splittgerber. Middle row: Aaron Weaver, Ken Mitchell, Jason Meyer, Nick Babin, Tarl Carpenter, Hugh Phan and Kim Dalton. Back row: Kathy Wenzl, Tyson Searls, Justin Ekstein, Dean Jeffrey and Matt Koerber.

#### **OPEN SYSTEMS FACTS:**

- This team has closed nearly 3,500 tickets as of the end of June 2014 for an average of 700 per month.
- ⇒ The OCIO protects 143 TB of data with various back-up technologies. Retentions vary from 3 days to forever.
- ⇒ As of the end of June 2014, the state had 248,021 faxes totaling 954,403 pages sent or received for an average of 20,668 faxes per month.







	Actual 2013-14	Estimated 2014-15		
INTERGOVERNMENTAL DATA EQUIPMENT AND SERVICES				
AS/400 Servers	58	20		
Dot Matrix Printers	120	25		
Laser Printers	770	850		
Laptops	204	210		
Desktops	560	560		
Thin Clients	402	410		
Number of counties utilizing State AS/400 to host own applications	59	62		
Number of different county owned applications installed on State AS/400	15	15		
Third party applications-total installs	311	315		

	Actual 2013-14	Estimated 2014-15		
ENTERPRISE COMPUTING & TECHNOLOGY SUPPORT SERVICES				
Monthly CICS (Client Information Control Systems) transactions	133,089.670	153,195,532		
Monthly Web Hosting Transactions	32,022,177	33,623,285		
Monthly Help Desk tickets	7,181	7,500		
Web Applications Hosted (as of 6/30)	82	85		
Applications Development – Total Hours Expended	277,274	271,308		

	Actual 2013-14	Estimated 2014-15
NETWORK SERVICES		
Data Circuits (Statewide)	917	960
Wireless Minutes of Usage (monthly)	1,308,537	1,400,000
Toll Minutes of Usage (monthly)	1,300,751	1,400,000
Toll Free Minutes of Usage (monthly)	2,609,288	2,700,000
SAN (Storage Area Network) Storage (GB)(monthly)	236,521	325,000
Backup (GB)(monthly)	127,877	150,000
Data Center (Rack Units)	761	761
Citrix and VPN (Virtual Private Network) Remote Access	436	475
Managed Domain Service	1,454	1,500
Distance Education Participants	261	274
Exchange Email Accounts	16,940	17,100
Secure Email Accounts (average/month)	7,601	7,700
Internet Fax Transaction	127,058	130,000

	Actual 2013-14	Estimated 2014-15
PUBLIC SAFETY COMMUNICATIONS		
State Agencies Participating (6/30)	8	9
Total Users (6/30)	2,220	2,400
Interoperability-County User Agencies	76	93







**EMAIL SERVICES** 

10,002 DAILY USERS

488,000 EMAILS/DAY

14 TB of Storage
IN EXCHANGE MAILBOXES

OCIO STORAGE AREA NETWORK (SAN)

**CURRENTLY HAS** 



1,191 TB

OF TOTAL
USABLE CAPACITY

## 10,817 FIXED ASSETS

OWNED AND MAINTAINED BY THE OCIO THROUGHOUT THE STATE



**527 Connections** 

In the state on the

**Closed Circuit TV Network** 

3.48 million
OUTBOUND CALLS/YR.



3.36 million

INBOUND CALLS/YR.

# FUN FACTS



#### **ENTERPRISE CONTENT MANAGEMENT**

**25,714,767** Documents Stored

**151,605,220** Pages Stored

**8.1** Terabytes of Storage

Serving 25,006 Users

#### **N-Focus**

## 107.2 MILLION

Transactions processed in January of 2014 which is an all-time record

#### **SCHEDULING**



514,236

Mainframe jobs scheduled via the Tivoli Workload Scheduler software based on schedules main-

tained by the Processing Support Staff during the past year

#### **PUBLIC SAFETY**

#### **COMMUNICATIONS**



On the Statewide Radio System, the **busiest tower** has

168 hours of conversation/month

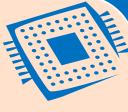
46,269 Channel Grants/month

The **least busy tower** has

**2.13** hours of conversation/month

451 Channel Grants/month

# CONTROL SYSTEM-CICS



**1.6 Billion** Transactions Annually

**4.3 Million** Transactions Daily

**49.5** Transactions Every Second

Annual Growth Rate of 17.6%

\$.0038 Average Client Cost/Transaction



The employees at the Office of the Chief Information Officer are extremely generous and actively partner with various charities throughout the year to raise funds and help out the local community.

#### CHARITABLE GIVING CAMPAIGN—AUGUST 2013



The Charitable Giving Campaign is the official workplace giving campaign for State employees and has three parts. The first part involves Pledge Cards. Employees are asked to complete Pledge Cards and commit to either a deduction per pay period for the year or a lump sum amount to be taken from their paychecks to help local charities. The second part is the Governor's Challenge to all State agencies for a competition to raise the most funds per five designated teams. Last of all, each agency created their own events to raise money for general funds in the campaign.

The OCIO coordinators came up with several fun events during the month of August under the theme, "U-ROCK." Creative employees crafted PET rocks from donated supplies and sold them for \$1 each. They were a **BIG HIT** and brought in almost \$400. Employees were purchasing them for their children,

grand kids and coworkers to praise them. Other events included Jean Days, which brought in \$2,154, Raffle Tickets for a Date-Night prize package—\$124, Bake Sale—\$303, and a few miscellaneous events—\$75.75, for a total of \$3,038.75 raised—not counting pledge cards. The U-ROCK Theme Days on Fridays were a big hit and many employees competed for 'Best Costume' prizes on Hawaiian Day, Hippie Day, Hat Day and Husker Day.

OCIO Charitable Giving Campaign Coordinators presenting Governor Dave Heineman with a U-ROCK. Left: Tami Rupe, Dotty Smith, Governor Dave Heineman and Gloria Esquivel.





#### MAKING STRIDES AGAINST BREAST CANCER—OCTOBER 2013



Left: Anne Byers, Marcia Stewart and Tami Rupe participated in the 2013 Making Strides Against Breast Cancer Walk on October 27th at Holmes Lake Park. At 1 pm on a warm and sunny Sunday, the OCIO 'Judy's Team' of three dressed in their **PINK** clothing took off for their walk around Holmes Lake along with over 6,000 other supporters for the **2013 Making Strides Against Breast Cancer Walk.** 'Judy's Team' was created in 2011 by a few employees and friends of a long-term OCIO employee who lost her fight with breast cancer in 2012. They joined together to honor her along with hundreds of others walking for their loved ones and survivors of breast cancer. This was the 13th annual walk in Lincoln at Holmes Lake

and the event raised \$275,000 for research, education, patient support and advocacy programs to defeat the disease.

#### HOLIDAY GIVING DRIVE—DECEMBER 2013

Each year, the office of the CIO gathers volunteers to organize a holiday giving project to benefit a local charity. This year, the Holiday Giving committee chose to gear their efforts to benefit local military heroes. Record-breaking numbers of over \$2,900 was raised to help our military heroes and their families.

Due to two large donations of stuffed animals, the Holiday Giving committee decided to hold a fun and competitive fund-raising event at the last minute called the Stuffed Animal Silent Auction. There were over 73 items that were displayed for five days in which employees could bid. A total of \$266 was raised with just a few items unsold. Several employees commented that they had a great time!

The OCIO partnered with the Department of Veterans Affairs Homeless Division who requested several items be donated for the needs of the veterans and their families that they serve. They requested warm clothing items for the homeless adults. In true OCIO tradition, our employees came through in

full force with almost 100 items donated. In addition, they requested cleaning supplies and toiletries to set up the homeless veterans in traditional housing. Over 164 individual cleaning and toiletry items were collected. Furthermore, toys and clothing for 22 children of the veterans' families were collected ranging in ages of a soon-to-be-born girl up to sixteen year olds. Each child had a gift consisting of three items or more.

Holiday Giving Drive Committee Members.

Back Row: Renee Bramhall, Carrie Olson and Linda Leland.

Front Row: Dotty Smith and Tami Rupe.



Finally, the Department of Veterans Affairs Homeless Division requested gift cards to Walmart, grocery stores and fast food restaurants as well as bus passes to StarTran. From the cash funds collected, almost \$1,200 in gift cards was donated including 21 bus passes.

A second charity benefiting military heroes was selected to receive a donation from our fundraising efforts. Due to a story in the December IT Now (OCIO Employee newsletter) from an employee about her father's recent trip on the Nebraska Korean Veteran's Flight, the Planning Committee chose to designate some of their funds to this organization called the **Midlands Community Foundation**. The OCIO sent them checks totaling over \$1,400. According to National Honor Flight Network officials, this was the largest Honor Flight group in its history. A local news story reported that over 500 donors contributed to allow 460 Korean War veterans and their volunteers to travel to Washington DC on March 25<sup>th</sup> for the final Korean War Honor Flight.





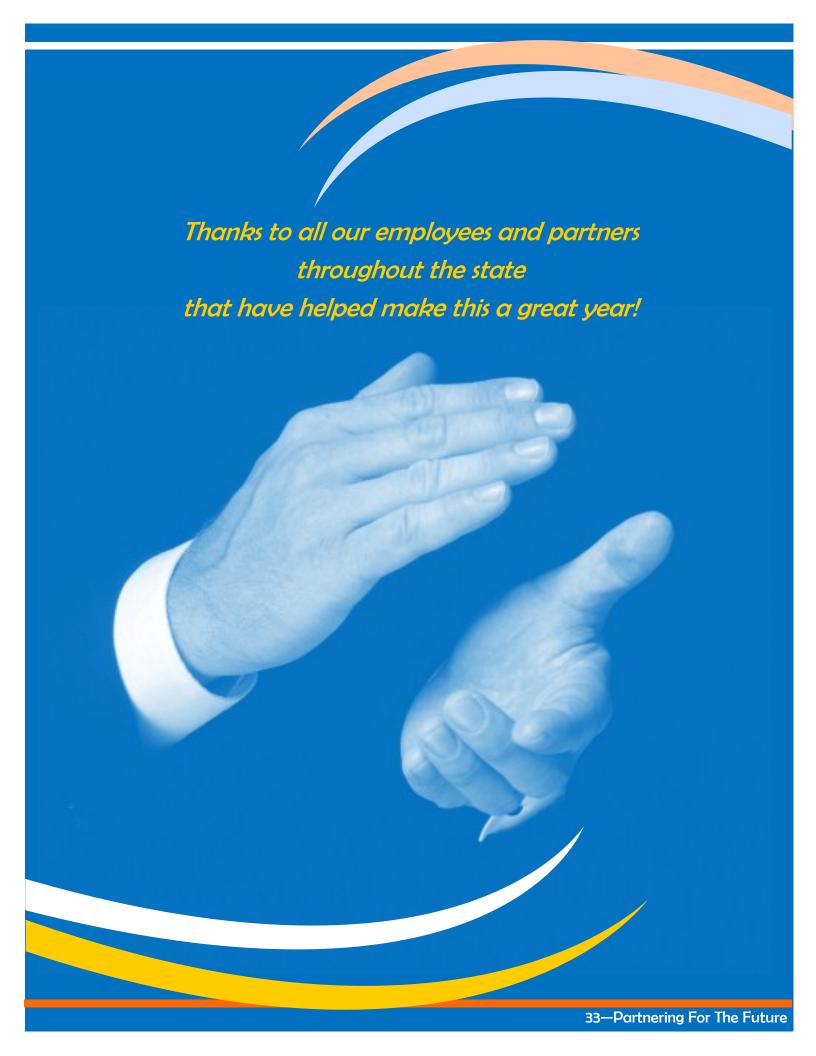
The 501 Building Coordinators posed with the 35 Back Packs collected by the OCIO Back Pack Squads. One more was added later for a total of 36 turned in to help the Food Bank of Lincoln. From **Left:** Gloria Esquivel, Dotty Smith, Caleb Wederquist and Tami Rupe.

#### FIGHT AGAINST HUMGER CAMPAIGN—APRIL 2014

The Fight Against Hunger Campaign is the annual event to benefit the Food Bank of Lincoln. The Department of Administrative Services was divided into three teams based on each agency's main location: Team OCIO, Team Capitol, and Team 1526. The total points earned were divided to a 'per employee' point score so that it was a fair battle. Daily, Weekly and Overall Winners were announced to all AS employees via email.

Each agency was allowed to create their own events to bring in donations planned by their Team Coordinators. Team OCIO continued our ever-popular JEAN DAYS. Jean Sticker revenue totaled \$4,224.78 from all three buildings. In addition, the 3rd floor of the 501 Building held their Annual Food Drive Breakfast on Tuesday, April 15th. This event was very successful with 80+ employees attending and \$448 earned. A new event planned this year was the Book Sale held on the 3rd floor of the 501 Building. Employees donated their unwanted books which were sold at \$1 each. This event brought in \$136. The Lincoln Literacy Council accepted 78 leftover books from the sale and were very appreciative of our support. Cash donations totaled \$140.

For food donations, a special emphasis was made this year on Back Packs for the Food Bank. Employees were asked to form "Back Pack Squads" and build back packs with the nine required items given to low-income children every Friday at Lincoln Public Schools. The response was an *OUTSTANDING* 36 Back Packs pushing our total of overall pounds of food to 533.4—increasing 110% over our 2013 total. The overall funds raised for the event totaled \$4,948.78—59% more than last year!





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